

In re Application of: **Schiffer & Heinemann**
Application No.: 09/854,140
Filing Date: May 11, 2001
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PATENT
Attorney Docket No.: SALK2940
(088802-8051)

b) **AMENDMENT TO THE CLAIMS**

The claims are shown below.

1. (Amended) A method of determining predisposition of a subject to a recurrent unipolar depressive ~~mood~~ disorder, said method comprising determining in a biological sample of a subject, ~~the presence of a human~~ kainate receptor subunit GluR7 allelic genotype ~~or allelic phenotype associated with predisposition to a mood disorder~~, said genotype being homozygosity for a thymine containing nucleotide at position 928 (928T/T), wherein the parents of said subject are T/G heterozygous at position 928 (928T/G).

Claims 2 – 36 (Cancelled).

37. (New) A method of determining predisposition of a subject to a recurrent unipolar depressive disorder, said method comprising determining in a biological sample from a subject, a human kainate receptor subunit GluR7 allelic phenotype, said phenotype being homozygosity for a serine at amino acid position 310 (310 Ser/Ser), wherein the parents of said subject are heterozygous at position 310, said heterozygosity being 310 Ser/Ala.

38. (New) A method of determining predisposition of a subject to a bipolar II depressive disorder, said method comprising determining in a biological sample of a subject, a human kainate receptor subunit GluR7 allelic genotype, said genotype being homozygosity for a guanine containing nucleotide at position 928 (928G/G), wherein the parents of said subject are T/G heterozygous at position 928 (928T/G).

39. (New) A method of determining predisposition of a subject to bipolar II depressive disorder, said method comprising determining in a biological sample of a subject, a human kainate receptor subunit GluR7 allelic phenotype, said phenotype being homozygosity for alanine at amino acid position 310 (310 Ala/Ala), wherein the parents of said subject are heterozygous at position 310 said heterozygosity being 310 Ser/Ala.

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40. (New) The method of claim 1 wherein said subject has at least one sibling affected with said disorder.

41. (New) The method of claim 37 wherein said subject has at least one sibling affected with said disorder.

42. (New) The method of claim 38 wherein said subject has at least one sibling affected with said disorder.

43. (New) The method of claim 39 wherein said subject has at least one sibling affected with said disorder.

44. (New) The method of claim 1 wherein said sample is from blood.

45. (New) The method of claim 38 wherein said sample is from blood.